

# **Linking city heritage collections by implementing Flemish OSLO standards**

*KBR - Linked Data and International Standards for Cultural  
Heritage (13 September 2022)*

**Olivier Van D'huynslager (Design Museum Gent)  
Annelies Valgaeren (Musea stad Antwerpen)**

*Collections of Ghent, a participatory platform  
to publish Linked Data Event Streams of  
heritage organizations of the city of Ghent*

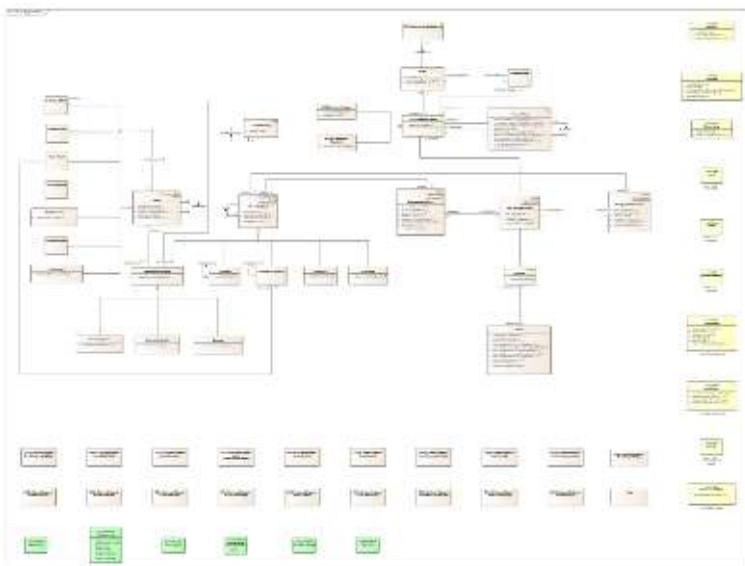
**Olivier Van D'huynslager (Design Museum Gent)**



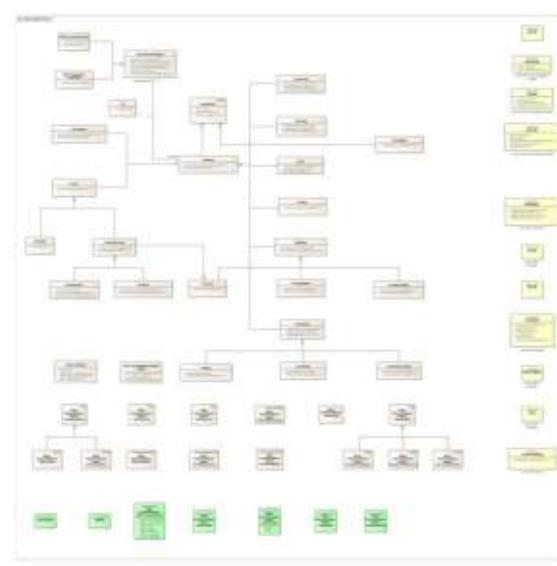
*First working group OSLO Cultural Heritage - January 2019 - Paleis der academiën*

# Description model for objects + activities

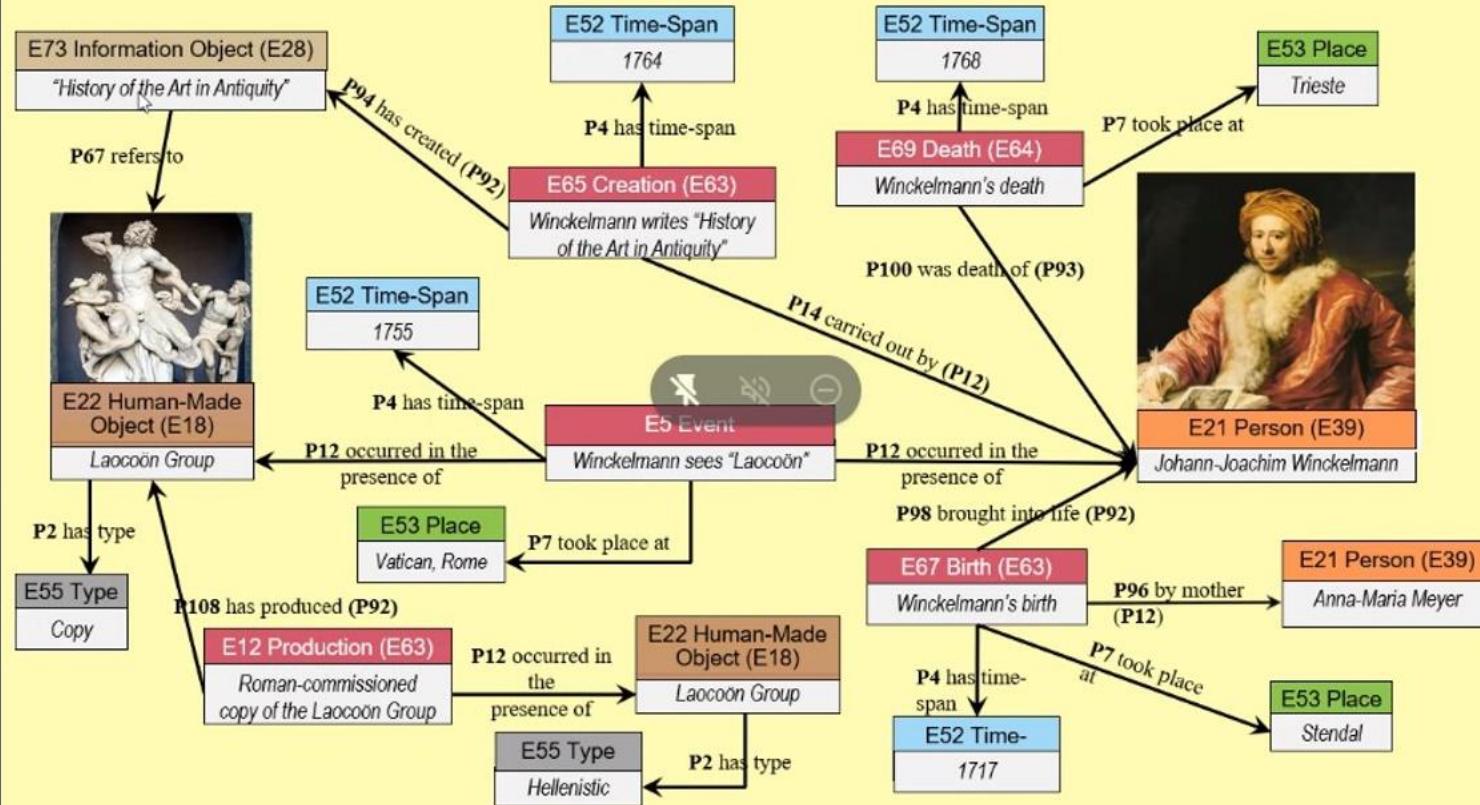
Makes use of CIDOC-CRM + Linked Art



**OSLO Cultureel Erfgoed Object**



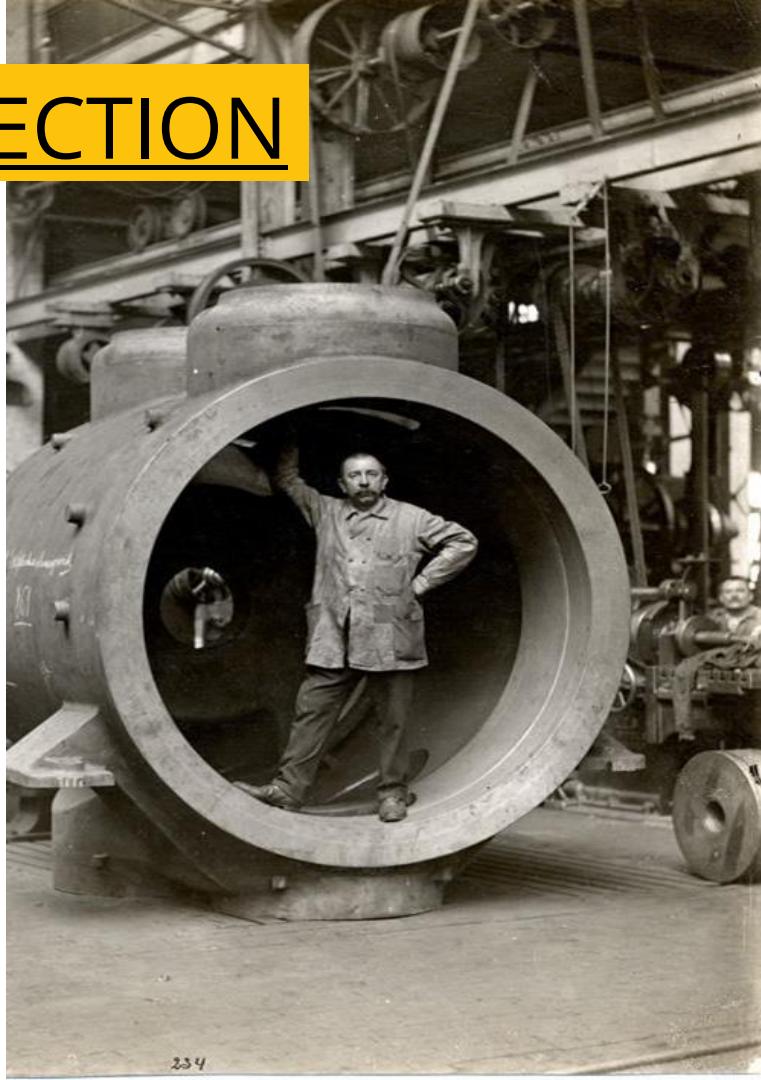
**OSLO Cultureel Erfgoed Event**



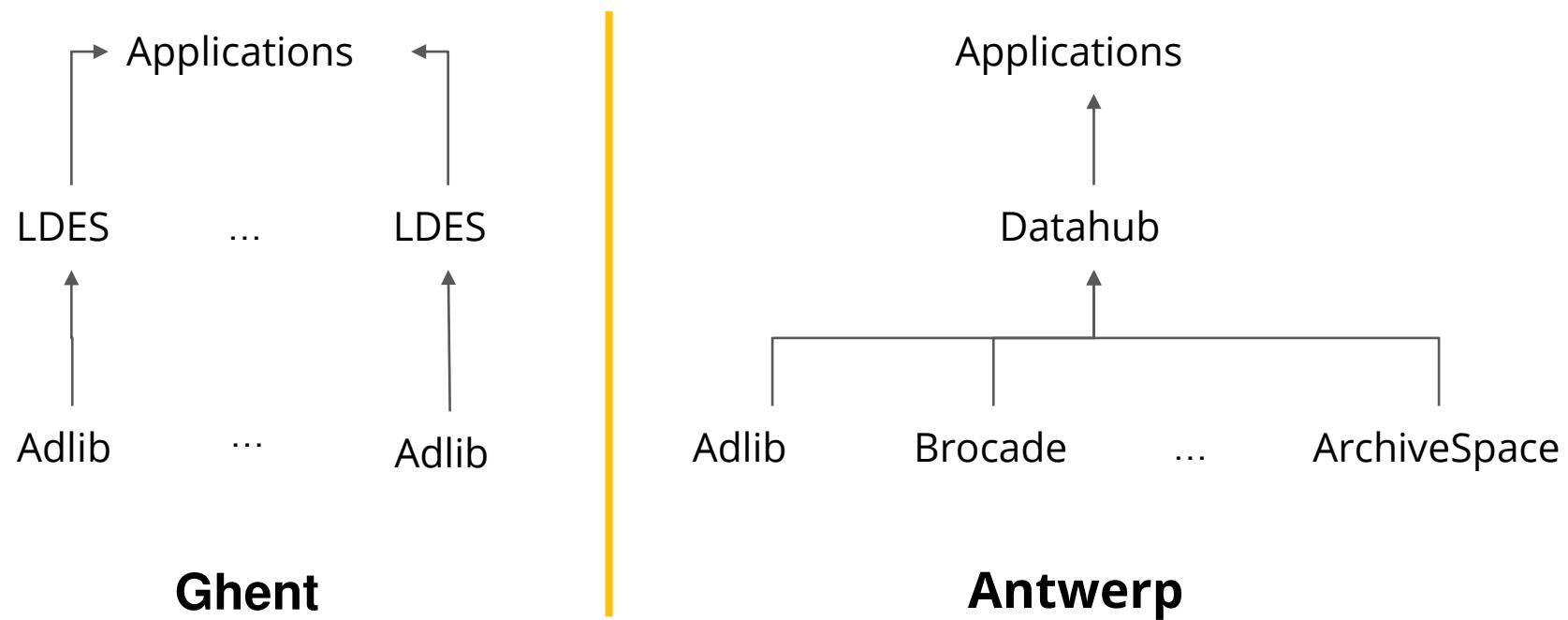
# "CATCH-UP DIGITAL COLLECTION DATA"

*"deploying the collection data as open data and making **visible** / **valorizing** the collection (data), in accordance with the **OSLO exchange standard** for cultural heritage;"*

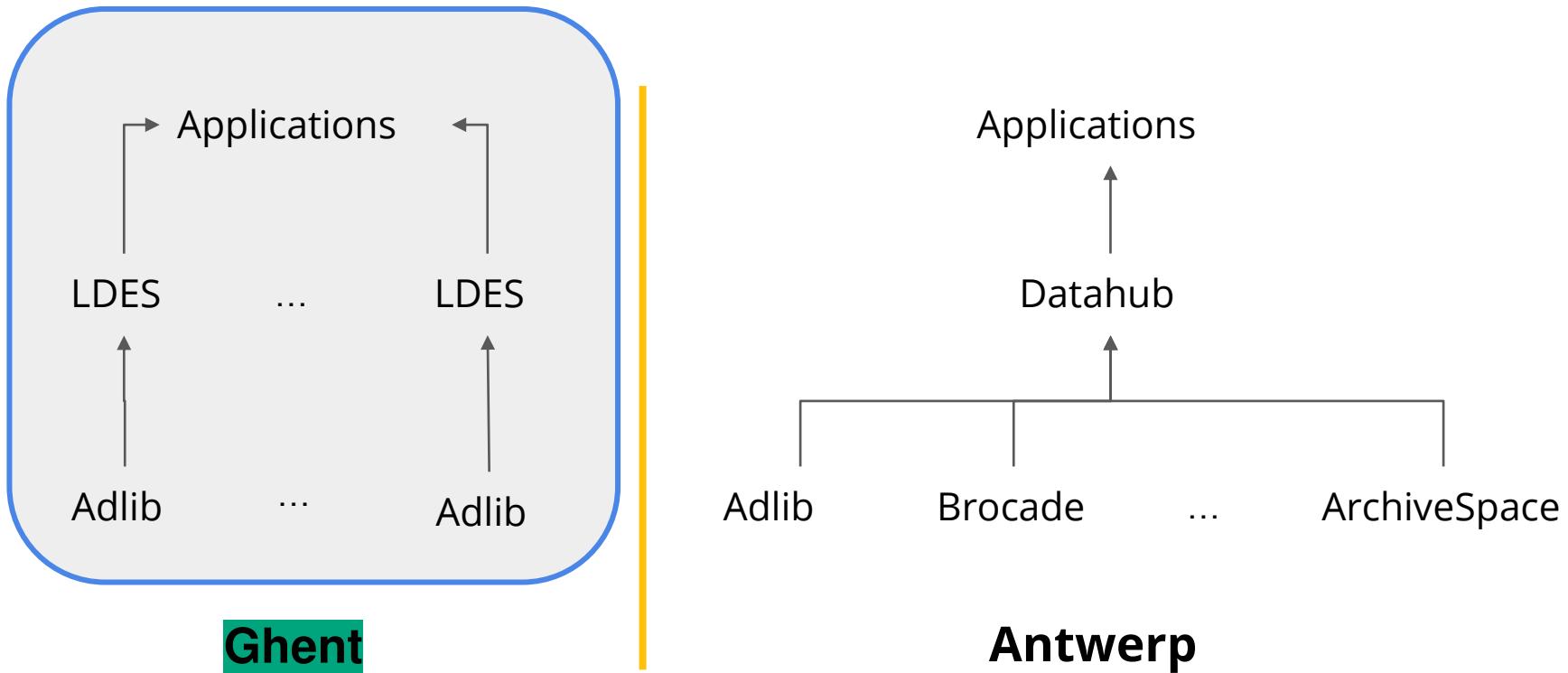
***Connect organizations across domains  
by implementing shared standards.***



## Creating links between collections of CHIs - via (de-)central data publication.



## Creating links between collections of CHIs - via (de-)central data publication.



# Cultural Heritage object = **DYNAMIC** objects

**\*\* subject to change**

V1



V2



V3



V4

V5

...

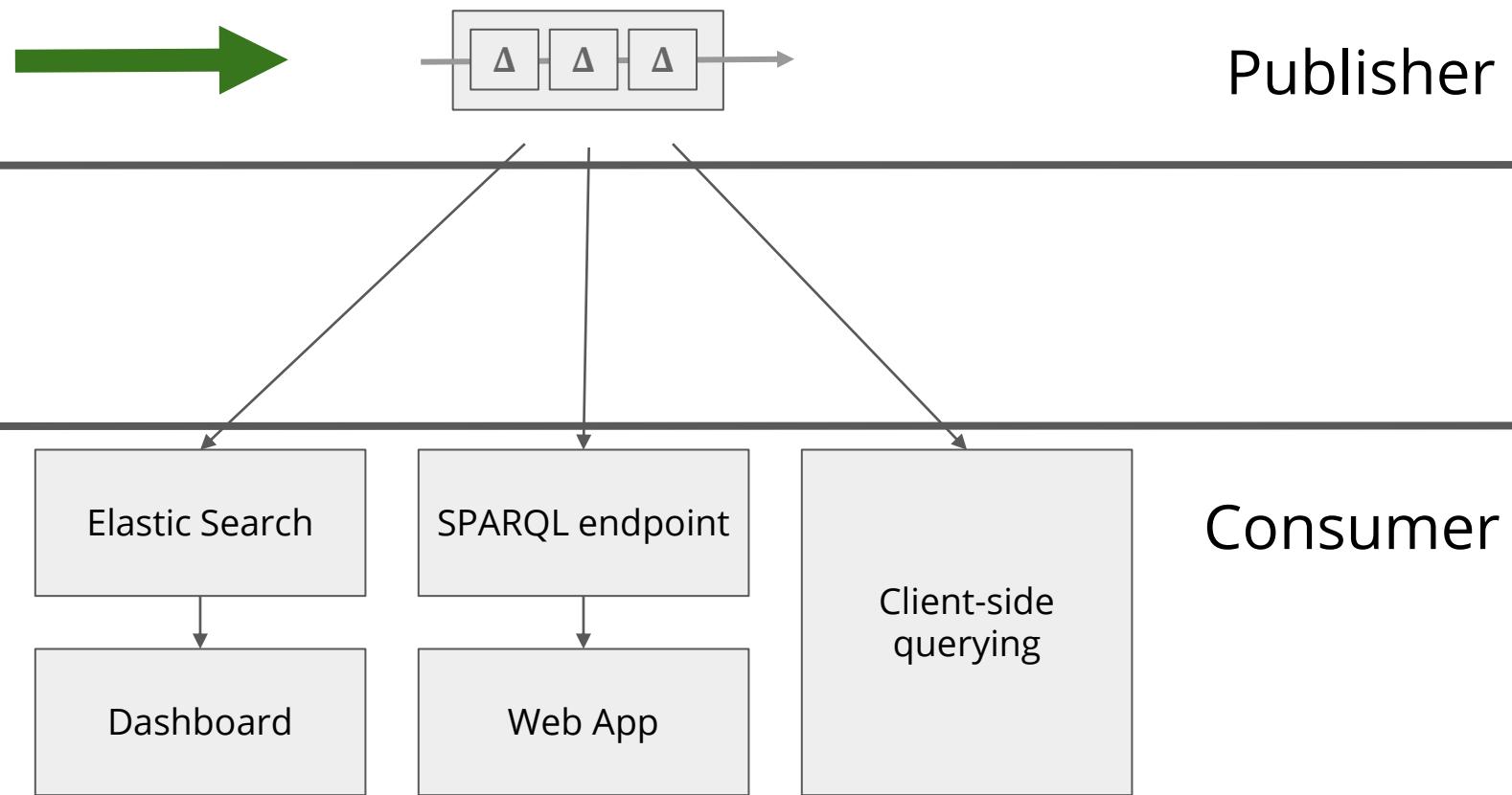
*Bed Lobkowitz - tentoonstelling Oude Vlaamse Kunst (1913)*

*Bed Lobkowitz - collectie opstelling*

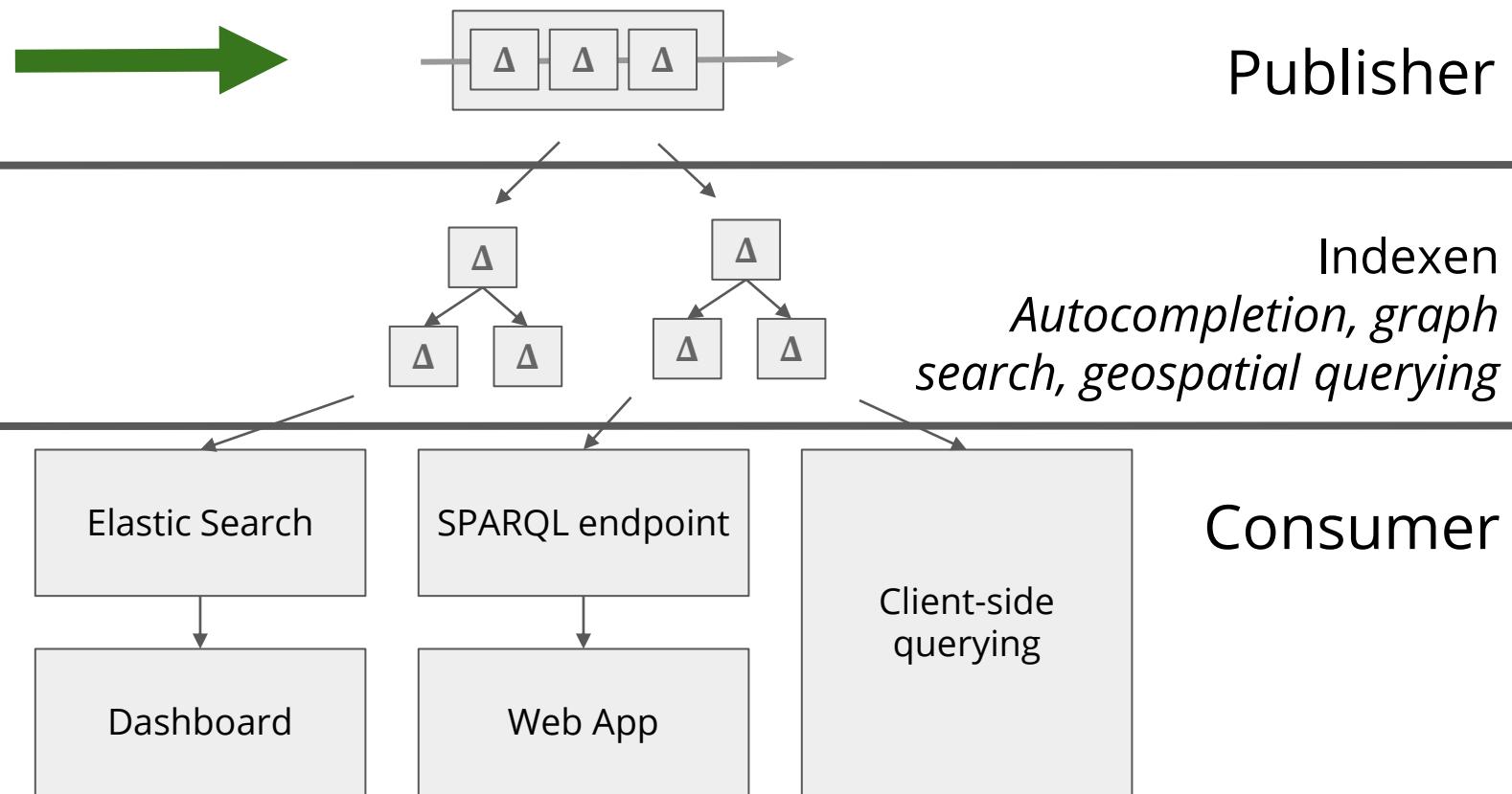
*Bed Lobkowitz - tentoonstelling Piet Stockmans (1968)*

**EVENTS**

# Linked Data Event streams (LDES): REPLICATION + SYNCHRONISATION



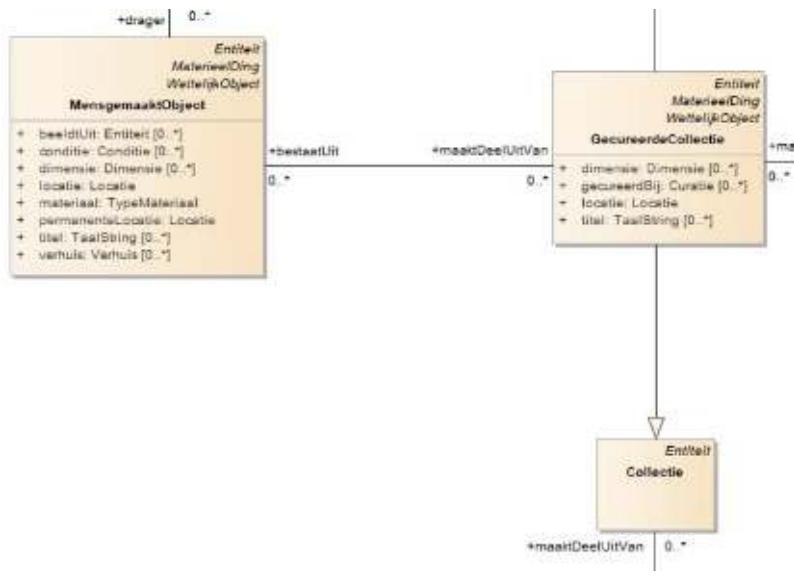
# Linked Data Event streams (LDES): REPLICATION + SYNCHRONISATION



# JSON-LD according to OSLO Cultureel Erfgoed Object

MensgemaakObject, Gecureerde collectie, Dimensie...

Human-made object, E78\_Collection , dimension



```
MaterieelDing.beheerder: "http://www.wikidata.org/entity/Q1809071",  
MensgemaakObject.maaktDeelUitVan: [  
  - {  
    @type: "Collectie",  
    Entiteit.beschrijving: "huishoudelijke apparaten (ok)",  
    Entiteit.type: {  
      @id: "http://vocab.getty.edu/aat/300257284",  
      label: "huishoudelijke apparaten (OK)"  
    }  
  },  
  - {  
    @type: "Collectie",  
    Entiteit.beschrijving: "Nova",  
    Entiteit.type: {  
      @id: "https://stad.gent/id/concept/530009137",  
      label: "Nova"  
    }  
  },  
],
```

# ADLIB (JSON) → LDES (JSON-LD)

```
  "priref": [
    "530009722"
  ],
  "Production": [
    {
      "creator": [
        "Nova"
      ],
      "creator.date_of_birth": [
        "1990-08-22"
      ],
      ...
    },
    {
      "Production_date": [
        {
          "production.date.end": [
            "1972"
          ]
        }
      ]
    }
  ]
}
```

```
  "MaterieelDing.productie": [
    {
      "@type": "Productie",
      "Productie.product": "https://stad.gent/id/mensgemaaktobject/dmg/530009722",
      "Gebeurtenis.tijd": [
        {
          "@type": "Periode",
          "Periode.einde": "1972"
        }
      ],
      "Activiteit.uitgevoerdDoor": [
        {
          "@id": "https://stad.gent/id/entiteit/530001198",
          "@type": "Agent",
          "volledigeNaam": "Nova"
        }
      ],
      "Gebeurtenis.plaats": [
        {
          "@id": "http://vocab.getty.edu/page/tgn/7008015",
          "label": "Tongeren"
        }
      ],
      "@reverse": [
        {
          "Rol.activiteit": [
            {
              "@type": "Rol",
              "Rol.agent": "https://stad.gent/id/entiteit/530001198",
              "Rol.rol": "http://vocab.getty.edu/aat/300197742"
            }
          ]
        }
      ],
    }
  ],
}
```

<https://data.vlaanderen.be/doc/applicatieprofiel/cultureel-erfgoed-event>

# METADATA ROUNDTRIPPING

From source to publication to source.

ADLIB →  
LDES →  
ADLIB?

!! CEST

```
http://www.w3id.org/ctcl/city/041770152

MensGemaakObject.maaktDeelUitVan:
  @id: https://stad.gent/id/concept/670001028
  @type: "Collectie"

https://www.projectcest.be/wiki/Publicatie:Invulboek_objecten/Veld/Naam_collectie

Entiteit.type:
  @id: "cest:Naam_collectie"
  label: "collectie"
  @value: "OBJECT"

Entiteit.classificatie:
  @id: "Classificatie"
  @type: "Classificatie"
  getypeerdeEntiteit: "https://stad.gent/id/mensgemaaktobject/archiefgent/670010367"
  toegekendType:
    @id: "https://stad.gent/id/concept/670001029"
    skos:prefLabel:
      @value: "foto's SCMS"
      @language: "nl"
      Entiteit.type:
        @id: "cest:Objectcategorie"
        label: "object_category"
      . . .
```

# SHACL shapes

language for validating RDF graphs

against a set of conditions. These conditions are provided as shapes and other constructs expressed in the form of an RDF graph.

CIDOC-Equivalent  
OSLO-Term

cardinality

1 SHACL shape / institution (based  
on mapping constraints)

```
  },
  {
    "sh:path": "http://www.cidoc-crm.org/cidoc-crm/P50_has_current_keeper",
    "sh:class": "http://purl.org/dc/terms/Agent",
    "sh:name": "MateriaalDing.beheerder",
    "sh:nodeKind": "sh:IRI",
    "sh:minCount": 1,
    "sh:maxCount": 1
  },
  {
    "sh:path": "http://www.cidoc-crm.org/cidoc-crm/P461_forms_part_of",
    "sh:class": "http://purl.org/dc/dcmitype/Collection",
    "sh:name": "MensgemaakteObject.maaktDeelUitVan",
    "sh:node": {
      "sh:datatype": "http://purl.org/dc/dcmitype/Collection",
      "sh:name": "Entiteit.beschrijving",
      "sh:minCount": 1,
      "sh:maxCount": 1,
      "sh:node": {
        "sh:name": "Entiteit.type",
        "sh:nodeKind": "IRI",
        "sh:maxCount": 1,
        "sh:minCount": 1
      }
    }
  },
  {
    "sh:path": "http://www.cidoc-crm.org/cidoc-crm/P461_forms_part_of",
    "sh:class": "http://purl.org/dc/dcmitype/Collection",
    "sh:name": "MensgemaakteObject.maaktDeelUitVan",
    "sh:node": {
      "sh:datatype": "http://purl.org/dc/dcmitype/Collection",
      "sh:name": "Entiteit.beschrijving",
      "sh:minCount": 1,
      "sh:maxCount": 1,
      "sh:node": {
        "sh:name": "Entiteit.type",
        "sh:nodeKind": "IRI",
        "sh:maxCount": 1,
        "sh:minCount": 1
      }
    }
  }
}
```

# SHACL shapes

language for validating RDF graphs

against a set of conditions. These conditions are provided as shapes and other constructs expressed in the form of an RDF graph

{

## DEFINE PATTERN CONSTRAINTS

```
"sh:nodeKind": "sh:IRI",  
  "sh:pattern": "https://stad.gent/id/agent/\d{9}",  
  "minCount": 1,  
  "maxCount": 1,  
  "sh:node": {
```

```
    "sn:maxCount": 1,  
    "sh:node": {  
      "sh:name": "Entiteit.type",  
      "sh:nodeKind": "IRI",  
      "sh:maxCount": 1,  
      "sh:minCount": 1  
    }  
  },  
},  
},  
{
```

1 SHACL shape / institution (based on mapping constraints)

# Link with Digital Asset Management Systeem (DAMS)

```
- Entiteit.isHetOnderwerpVan: [
  - {
    @id: "https://api.collectie.gent/iiif/presentation/v2/manifest/archiefgent:IC_AG_W_130",
    @type: "DigitalObject",
    - conforms_to: [
      - {
        @id: "https://iiif.io/api/presentation",
        @type: "InformatieObject"
      }
    ],
    format: "application/ld+json;profile=\"http://iiif.io/api/presentation/2/context.json\""
  }
],
```



Gent: Panoramisch zicht op Gent vanaf Heernis, Collectie van de Gentenaar, Archief Gent CC0

# Link with Digital Asset Management Systeem (DAMS)

```
  - Entiteit.isHetOnderwerpVan:
    - {
      @id: "http://api.collectie.gent/v1/presentation/v2/context.json"
      @type: "Dctypes:Description"
      label:
        @value:
          "Gent: Panoramisch licht op Gent vanaf Heemst"
        @lang:
          "nl"
        @type:
          "Text"
      description:
        "De beelden van de Heemst suitten de Dampfort, Irvin en op de voorwand een stempel van Bibliotheca Gentianaensia."
      conforms_to:
        - {
          @id: "http://api.collectie.gent/v1/presentation/v2/conformance/1C_AC_N_138"
          @type:
            "Dctypes:Conformance"
          rendering:
            - {
              @id: "http://api.collectie.gent/v1/presentation/v2/conformance/1C_AC_N_138#r1"
              @type:
                "Dctypes:Sequence"
              sequences:
                - {
                  @id: "http://api.collectie.gent/v1/presentation/v2/conformance/1C_AC_N_138#r1c1"
                  @type:
                    "Dctypes:Image"
                  label:
                    "17c5d258dd0d038c5a02626d0d498e-transcode-1C_AC_N_138.jpg"
                  height:
                    3986
                  width:
                    6160
                  images:
                    - {
                      @id: "http://api.collectie.gent/v1/presentation/v2/conformance/1C_AC_N_138#r1c1i1"
                      @type:
                        "Dctypes:Image"
                      attribution:
                        "Bron: Archief Gent"
                      license:
                        "https://creativecommons.org/publicdomain/zero/1.0/"
                      activation:
                        "Dctypes:Image"
                      resources:
                        - {
                          @id: "https://api.collectie.gent/v1/presentation/v2/conformance/1C_AC_N_138#r1c1i1r1"
                          @type:
                            "Dctypes:Image"
                          format:
                            "image/jpeg"
                          height:
                            3986
                          width:
                            6160
                          @service:
                            - {
                              @id: "https://api.collectie.gent/v1/presentation/v2/conformance/1C_AC_N_138#r1c1i1r1s1"
                              @type:
                                "Dctypes:Image"
                            }
                        }
                    }
                }
            }
        ]
      },
      format: "application/json"
    }
  ],
  "context": {
    "@id": "http://api.collectie.gent/v1/presentation/v2/context.json"
    "@type": "Dctypes:Context"
  }
}
```



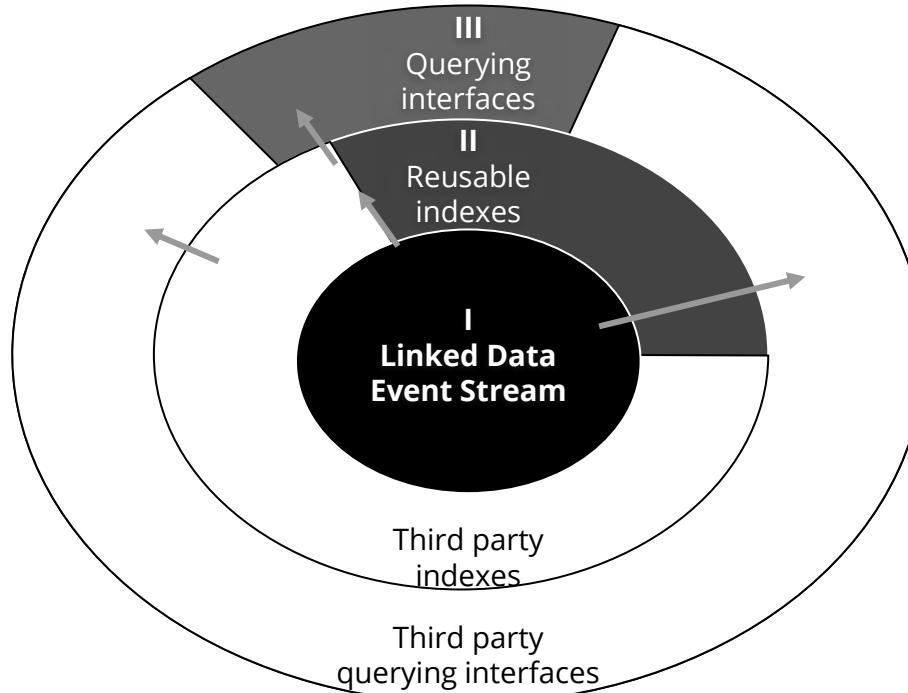
Gentenaar,

# TERMENNETWERK (AUTHORITY LIST)

## **RECONCILIATION NOT UNIFORMISATION**

CoGhent publishes authority lists as they appear in the CMS. If possible, each term is linked with a broadly acknowledged authority list such as AAT. This way we safeguard the unique interpretations and definitions of terms in each institution without losing the possibility of linking across institutions.

# LDES; part of .. a bigger ecosystem.



<https://apidg.gent.be/opendata/adlib2eventstream/v1/>

# One LDES per CHI.

## Published by District 09

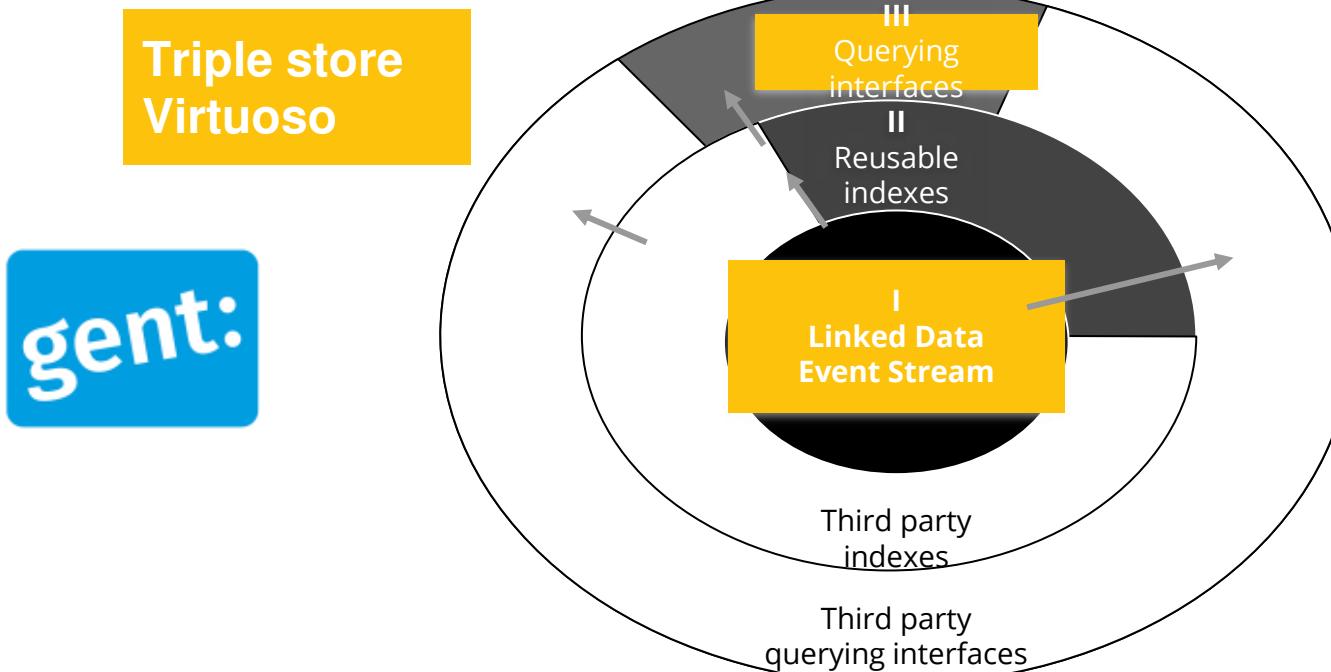


STAM



<https://apidg.gent.be/opendata/adlib2eventstream/v1/>

# Persistent URIs by Stad Gent

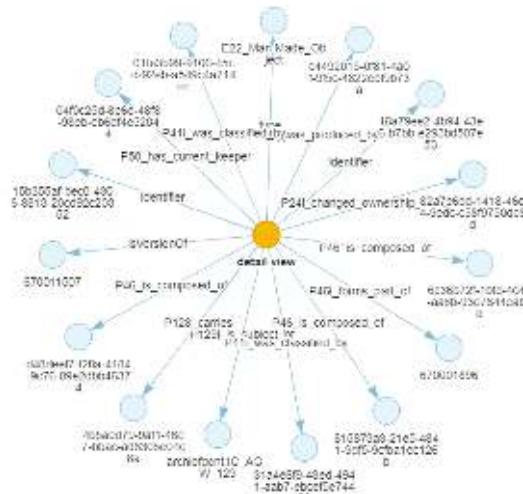


<https://github.com/nvdk/ldes-to-linkedpipes>

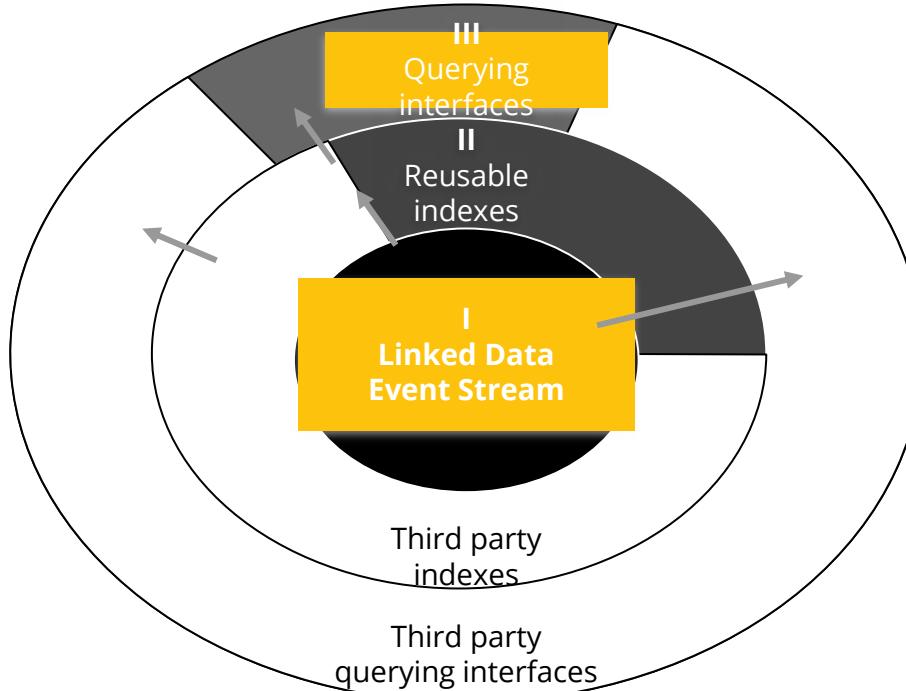
**URI template: [https://stad.gent/id/...](https://stad.gent/id/)**

**Each institution chooses its own webpage - (foaf:page)**

```
@id: "https://stad.gent/id/mensgemaaktobject/dmg/530028810/2022-05-07T00:12:28.294Z",
@type: "MensgemaaktObject",
dcterms:isVersionOf: "https://stad.gent/id/mensgemaaktobject/dmg/530028810",
prov:generatedAtTime: "2022-05-07T00:12:28.294Z",
foaf:page: "https://stad.gent/data/mensgemaaktobject/dmg/530028810/2022-05-07T00:12:28.294Z",
```



# Citywide integration layer with SPARQL



<https://github.com/nvdk/ldes-to-linkedpipes>

# Ambition: generate connections across sectors.



Gezin aan tafel op het terras van de Neptune, Collectie van de Gentenaar, CC0

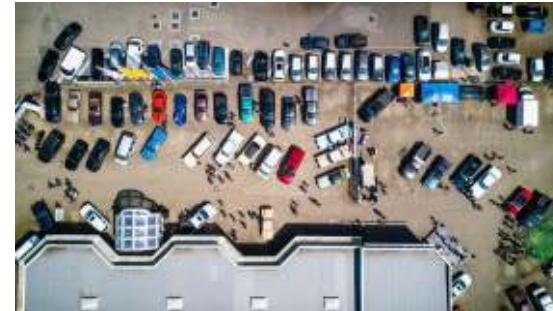
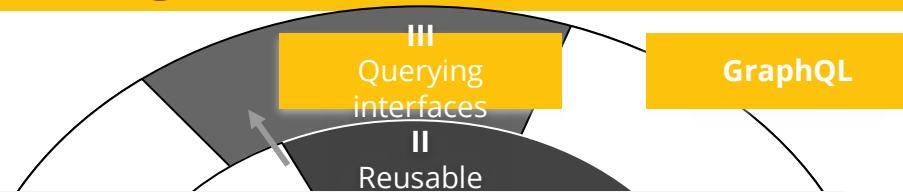


Foto door Stephan Müller via Pexels



Foto door Jonathan Borba via Pexels



**Duik mee in de geschiedenis en ontdek  
de vele objecten uit onze rijke collectie!**

Q Zoeken

Laat je verrassen

✓ Alle werken

Archief Gent

Huis van Alijn

Industriemuseum

STAM – Stedsmuseum Gent

Design Museum Gent

Binnenstad

LF. De Vos & Co

auto

porselein

circus

jaren 1960

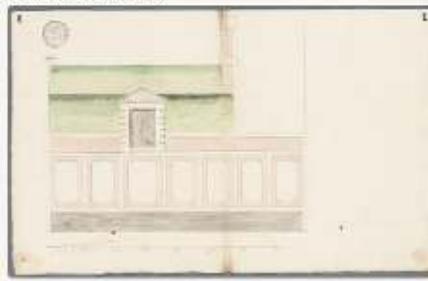
Sacré, Edmond

publiciteit

2de kwart 20de eeuw

speelgoed

Aantal resultaten: 57302



# Cogent Box



# Cogent Box



# THANKS TO:

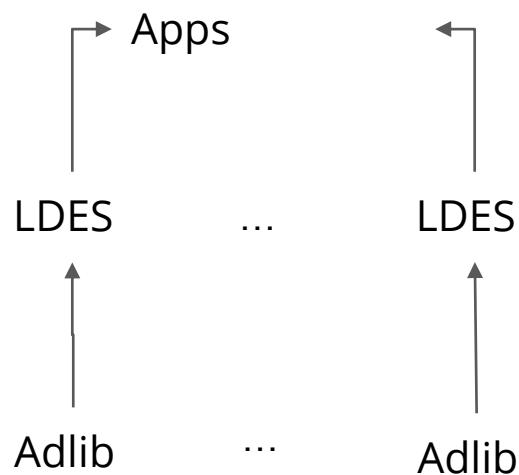


STA'M

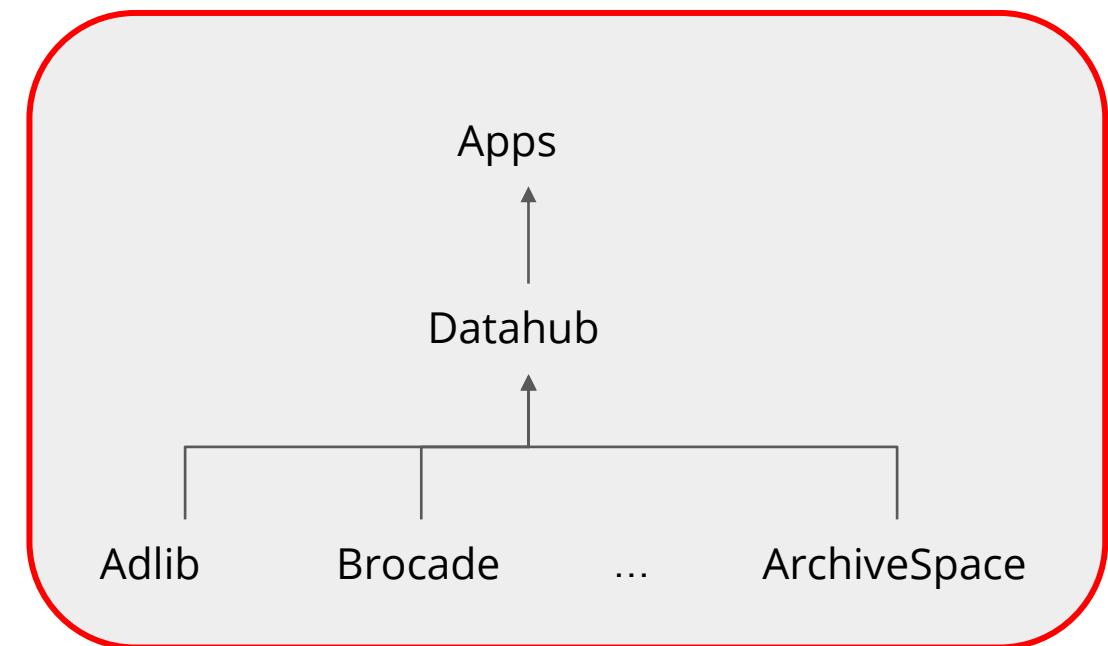


# Datahub Museums and Heritage Collections Antwerp



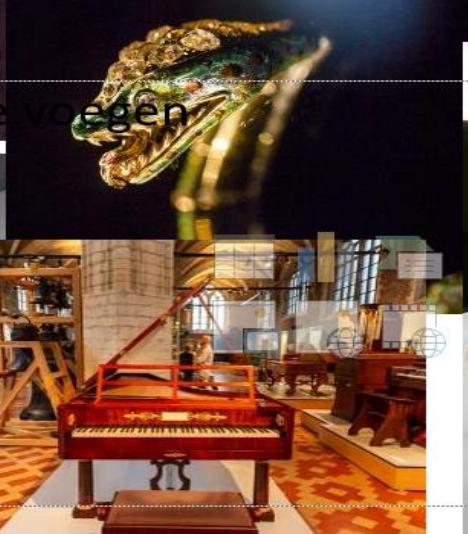


**Gent**

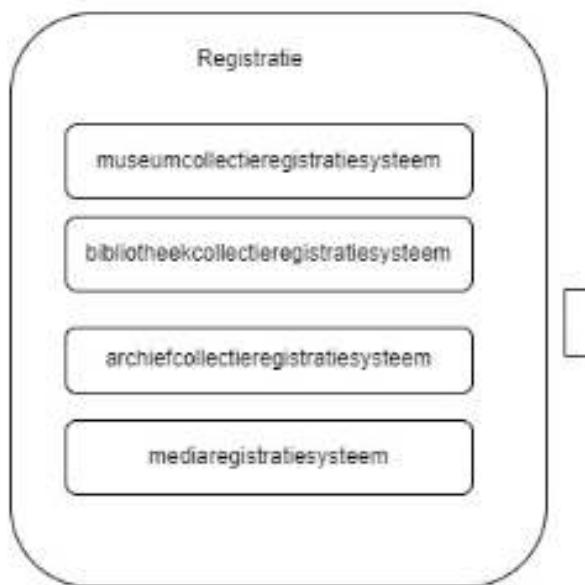


**Antwerpen**

# Very diverse heritage collections within 1 city



# Collection registration systems



- Bibliotheekbeheersysteem voor beschrijving volgens metadatastandaarden, ontsluiting, beheer en gebruik van **boeken en bibliografische beschrijvingen** (proces van aankoop, over beschrijving tot dienstverlening aan gebruikers).
- Archiefbeheersysteem voor acquisitie, beschrijving volgens metadatastandaarden, ontsluiting, beheer en dienstverlening van **archiefcollecties**.
- Collectiebeheersysteem voor **musea**: acquisitie, beschrijving volgens metadatastandaarden, ontsluiting en beheer
- Mediaregistratiesysteem voor beheer van en beschrijving technische metadata van digitale bestanden



# Brontoepassingen

MUSEUM	LIBRARY	ARCHIVES	IMAGES
Adlib	Brocade	ArchivesSpace + Arches	DAMS
TMS	KOHA	KOHA	ResourceSpace
QI			



# Just one system for all?

Very different requirements:

- Exhibitions versus reading rooms in libraries: different **user flows**
- A book is not a sculpture is not a letter: very broad range of **metadata**
- **Copyright restrictions** are very different

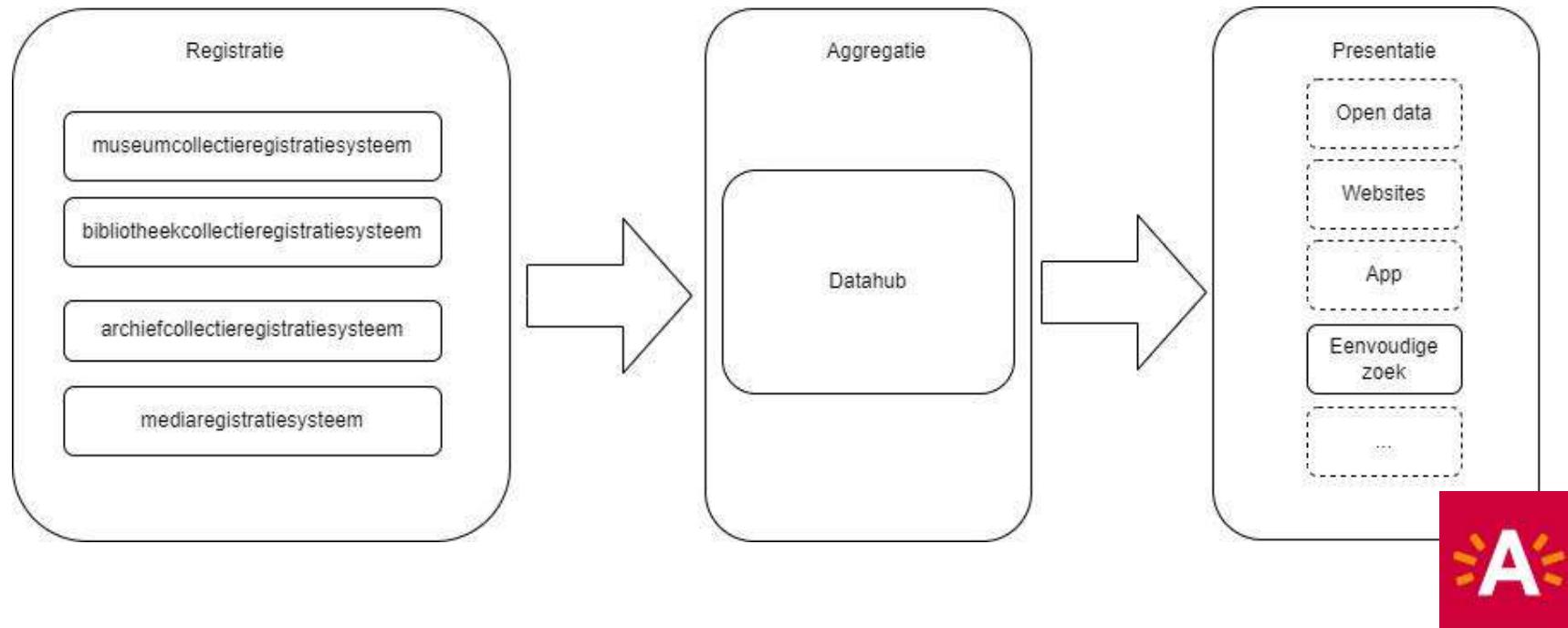


# Datahub

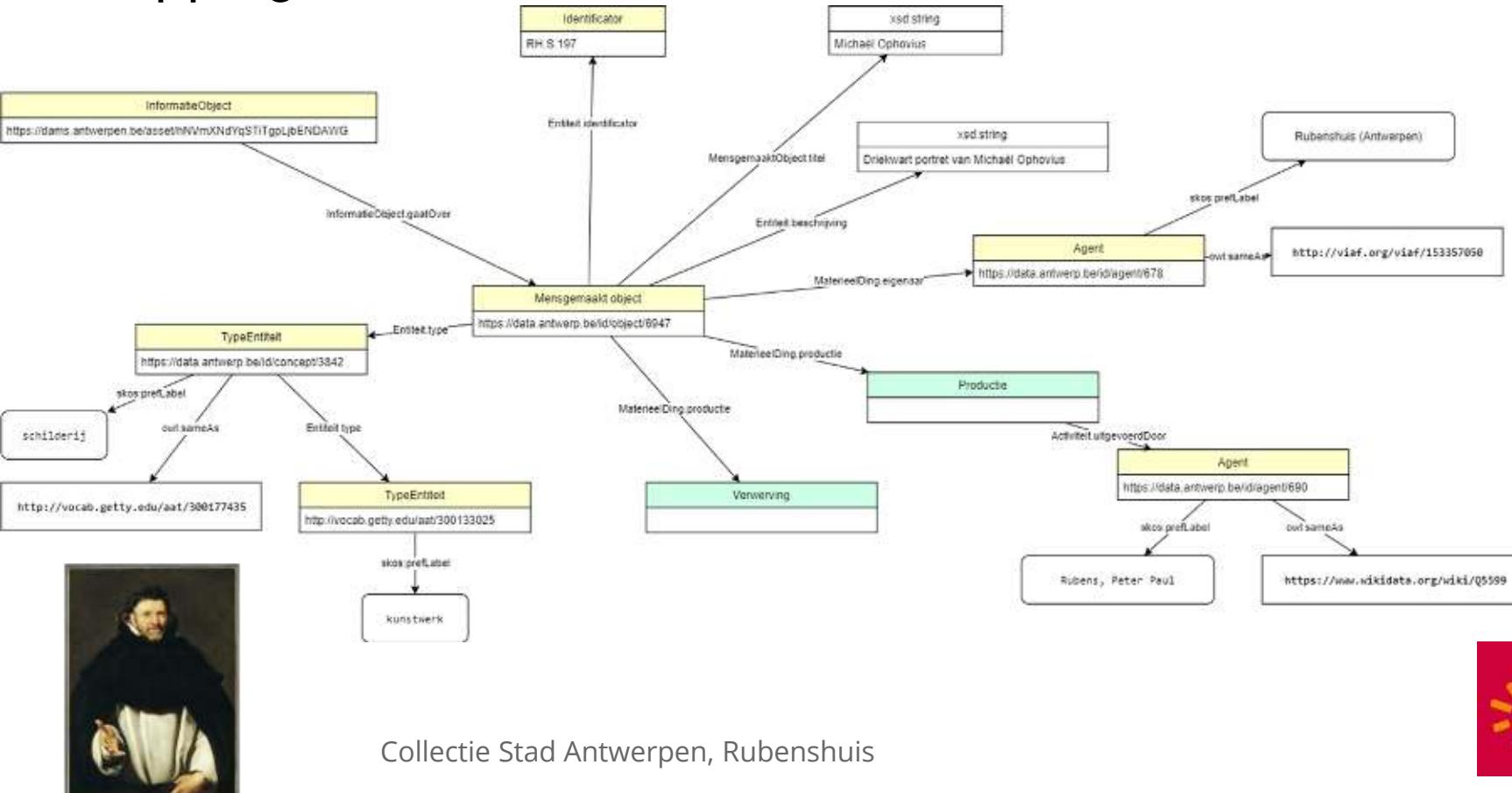
- We want one website or app to **search** in all heritage collections of the city of Antwerp
- We want our collections to be **linked and connected**
- We need a **sustainable architectural setup** which can be expanded when asked for
- We want to share our data (and our collections) with the **public**
- We want to make the use of our collections as easy as possible for all **kind of websites and apps**



# Eco-systeem

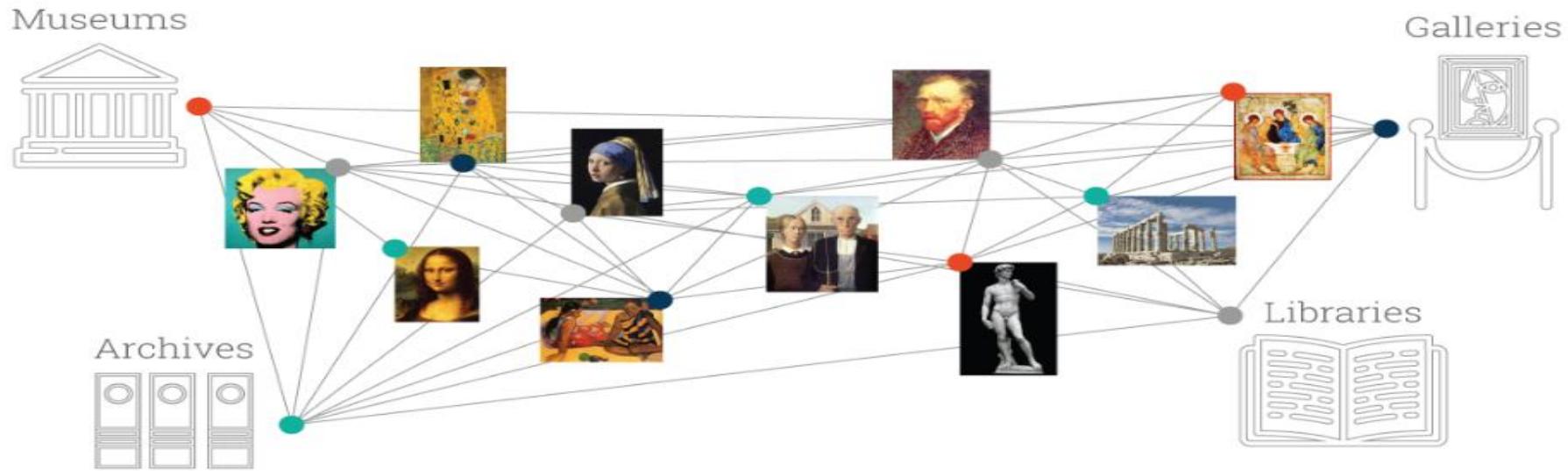


# Mapping of metadata



Collectie Stad Antwerpen, Rubenshuis

## Linked authorities (Wikipedia, Getty, Flickr, ...)



# Linked open data

[https://fr.wikipedia.org/wiki/Mathieu\\_de\\_Morgues](https://fr.wikipedia.org/wiki/Mathieu_de_Morgues)

WIKIPÉDIA  
L'encyclopédie libre

Rechercher sur Wikipedia

Créer

Accueil Portail thématiques Articles les plus lus Conrad

Connexion Démarrer sur Wikipedia Aide Communauté Modifications récentes Faire un don

Collab. Pages récentes Suivi des pages éditées Déposer un cliché Pages spéciales Liens permanents Informations sur la page Citer cette page Dernier billet de blog Aider des lecteurs Métriques

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Article Discussion

Liens Modifier Modifier le code Voir l'historique

## Mathieu de Morgues

Pour les articles homonymes, voir Saint-Germain.

**Mathieu de Morgues**, dit sieur de Saint-Germain, né en 1582 à Saint-Germain-Laprade (Haute-Loire)<sup>1</sup> et mort le 28 décembre 1670 en hospice des Incurables à Paris, est un pamphlétaire français. Très fréquemment confondu avec le Jésuite provincial Mathieu Ménagues (1603-1714, archidiacre et recteur du collège jésuite de Nîmes).

**Sommaire** [masquer]

- 1 Biographie
- 2 Notes et références
- 3 Bibliographie
- 4 Liens externes

### Biographie

Mathieu de Morgues, sieur de Saint-Germain, né en 1582, au château de Saint-Germain Laprade, à l'est du Puy-en-Velay, sur la rive droite de la Loire. Son père, Claude de Morgues, est le troisième consul de Velay et y joue un rôle dans les guerres religieuses. Le jeune Mathieu termine ses études au collège des Jésuites d'Avignon, et y entre dans l'ordre séculier. Il quitte l'ordre en 1610, «en fugitif», selon certains de ses adversaires – afin d'échapper à un jugement d'exclusion pour compromis d'héritage.

Il fait connaissance à la cour de France comme amoureux de la reine Marguerite (fille de Marie de Médicis, mère de Louis XIII), il prend le parti de celle-ci contre Richelieu lors de leur rupture et, en 1631, accompagne la reine-mère et Gaston d'Orléans dans leur exil à Bruxelles, aux Pays-Bas espagnols. Là, il rédige de nombreux pamphlets contre le cardinal, qu'il appelle par dérision

**Mathieu de Morgues**



**Biographie**

Né	1582 /
à	Saint-Germain-Laprade /
Dé	28 décembre 1670 /
à	Paris /
Activité	Théologien /

[Photos externes](#)



# Linked open data



schilderij (<http://vocab.getty.edu/aat/300177435>), Museum Plantin-Moretus

[Plus de détails](#)

## References

<https://search.museumplantinmoretus.be/Details/collect/209924>

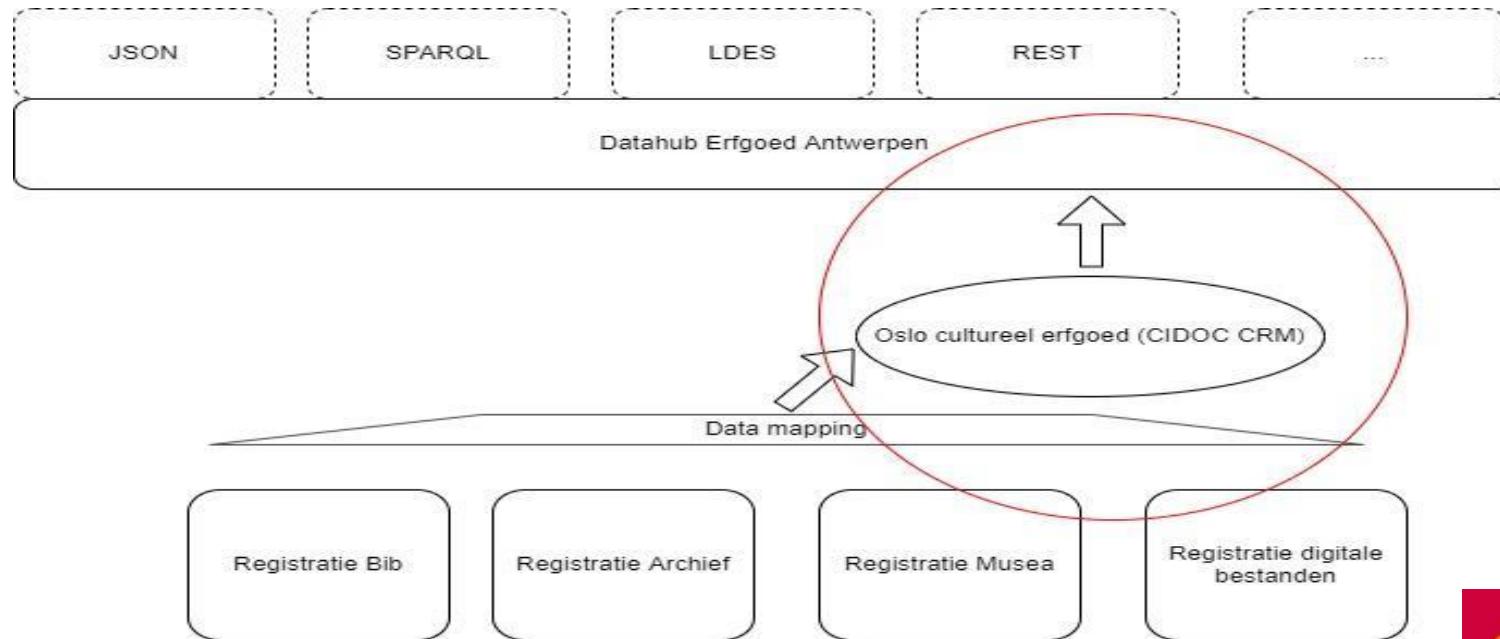
## Source/Photographer

<https://dams.antwerpen.be/asset/wVuBWj79UOZjYsJnJn2IndcH>

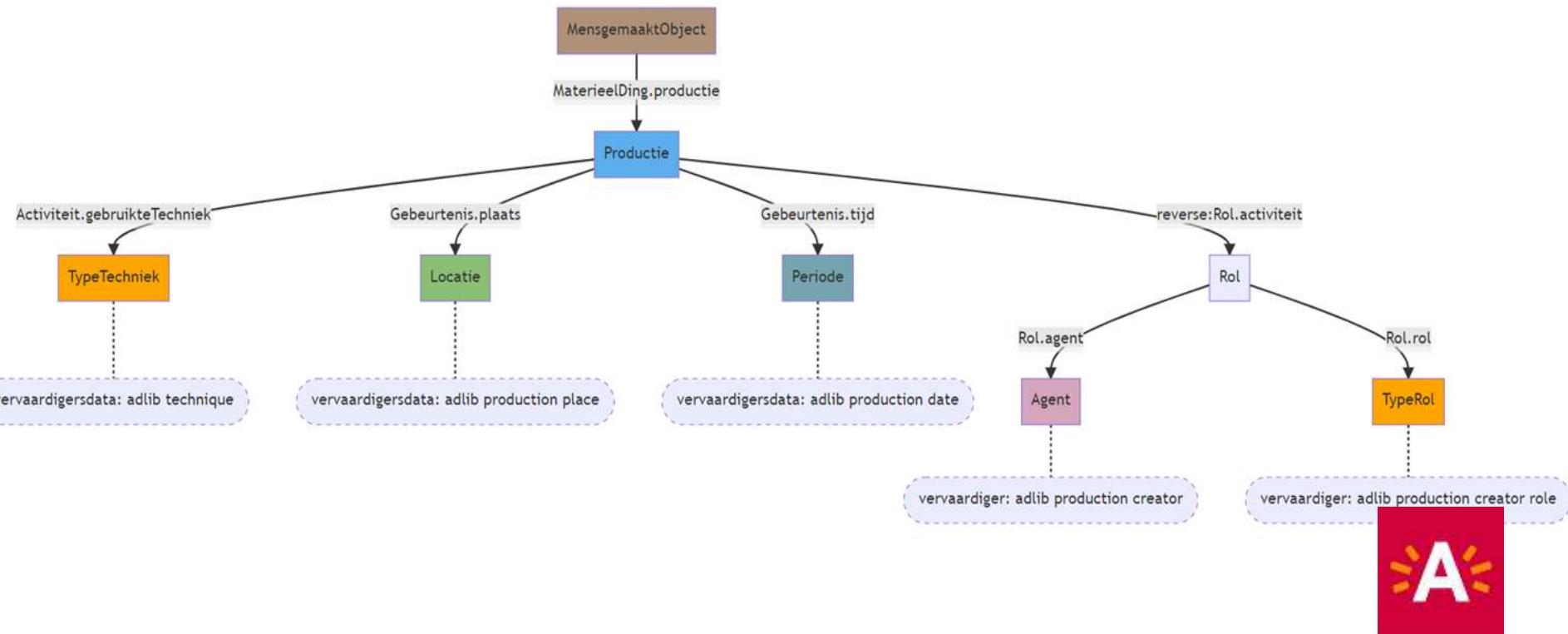
[https://commons.wikimedia.org/wiki/File:Portret\\_van\\_Matthieu\\_de\\_Morgues,\\_onbekend,\\_schilderij,\\_Museum\\_Plantin-Moretus\\_\(Antwerpen\)\\_-\\_MPM\\_V\\_IV\\_114.jpg](https://commons.wikimedia.org/wiki/File:Portret_van_Matthieu_de_Morgues,_onbekend,_schilderij,_Museum_Plantin-Moretus_(Antwerpen)_-_MPM_V_IV_114.jpg)



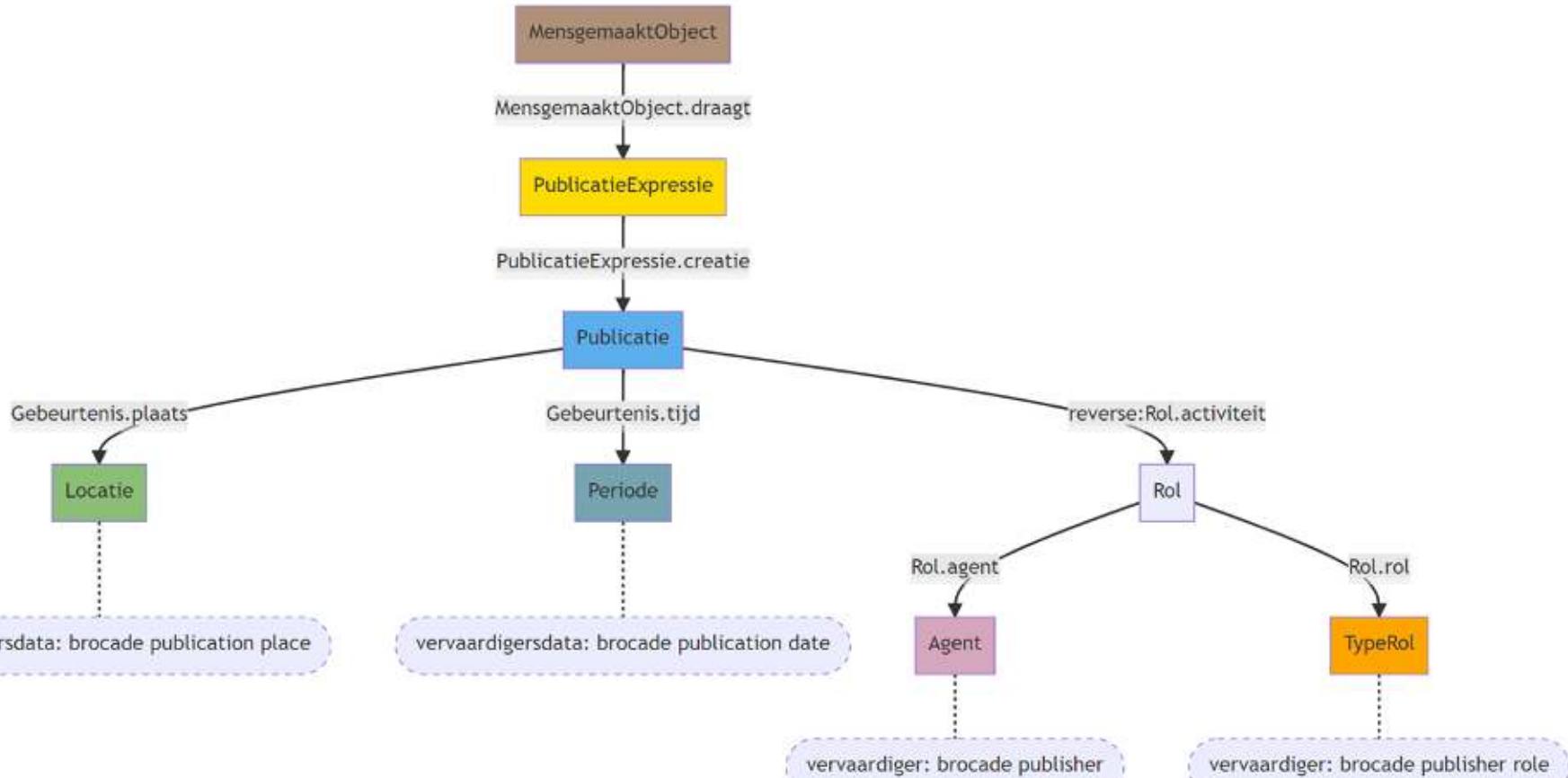
# Datahub - concept



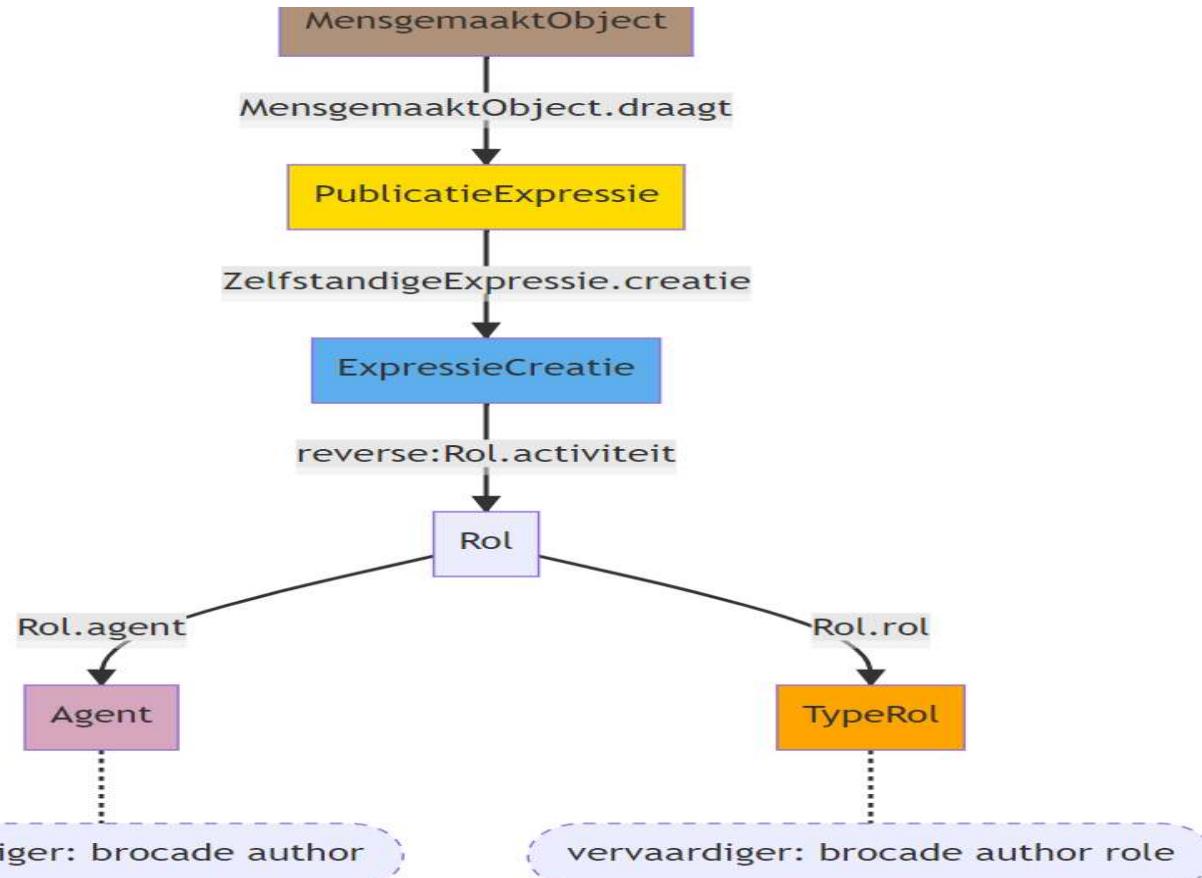
# Datahub - mapping



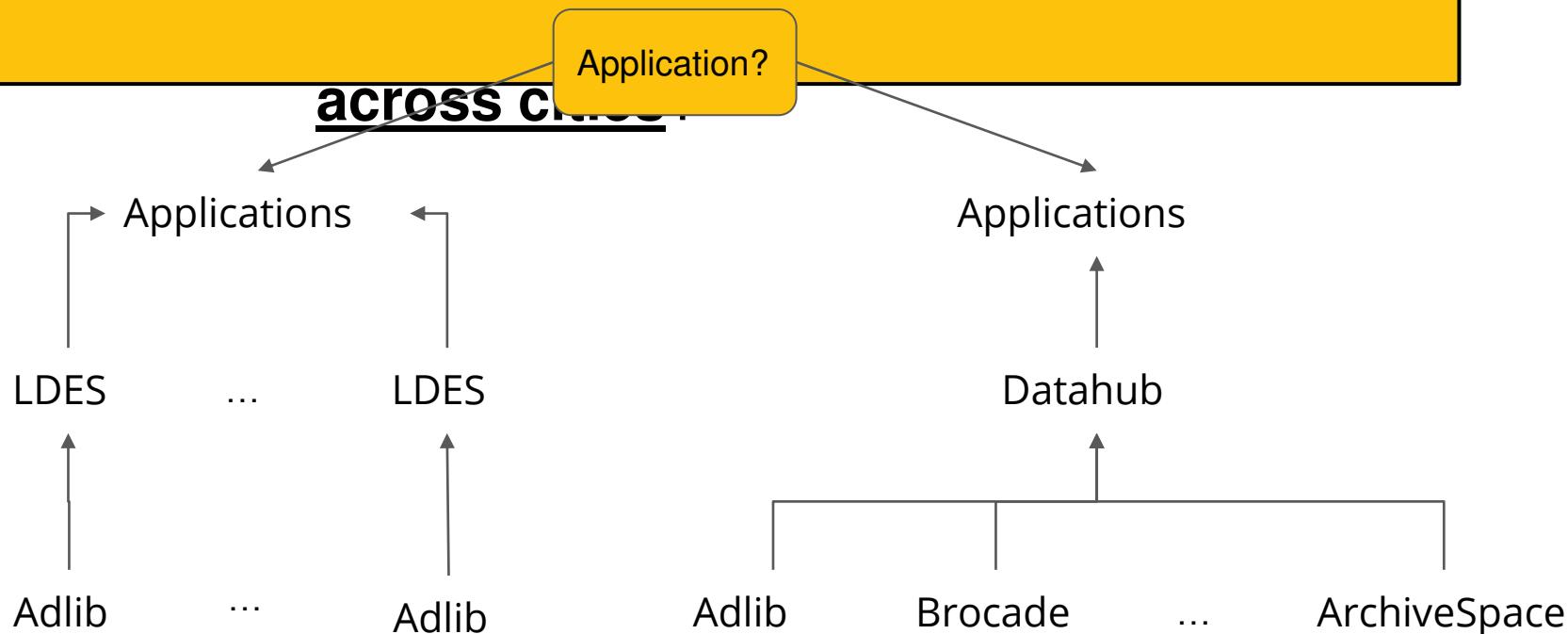
# Datahub - mappina



# Datahub - mapping



# How can we create connections across collections?



**Ghent**

**Antwerp**

# Demo using AAT authority list as connector.

3 datasources:

- Art and Architecture Thesaurus (Getty)
- SPARQL endpoint Ghent-
- Datahub Antwerpen  
try [here](#)

Choose datasources:

<https://prod.digipolis.hubs.delving.org/fragments/> 

<https://lodi.ilabt.imec.be/sparql/getty> 

<https://lodi.ilabt.imec.be/sparql/gent> 

# Comunica tool to query data

## Knowledge graph query engine

- Heterogenous sources
- Modular
- client-side

<http://query.linkeddatafragments.org/>

## Query the Web of Linked Data

Live in your browser, powered by Comunica.



Choose datasources:

<https://lodilabt.imec.be/sparql/gent>

<https://lodilabt.imec.be/sparql/getty>

Type or pick a query:

SPARQL GraphQL-LD

```
10 ?object cidoc:P46i_forms_part_of ?collectie.
11 ?collectie cidoc:II_has_type ?typeCollectie.
12 #?typeCollectie skos:prefLabel ?label
13 #FILTER (lang(?label) = "nl")
14
15 BIND (URI(REPLACE(str(?typeCollectie), "page/", "")) AS ?t).
16 optional {
17   ?t skos:note ?nlAbstract.
18   optional {?nlAbstract rdf:value ?v
19     FILTER (lang(?v) = "nl")}
20 }
21 optional {
22   ?t skos:note ?enAbstract.
23   optional {?enAbstract rdf:value ?v2
24     FILTER (lang(?v2) = "en")}
25 }
```

Stop execution

42.861 results in 21.6s

Query results:

?v2 "Devices used in a domestic context that facilitate such tasks as food preparation, food storage, cleaning, and grooming and that are powered by fuel or electricity."@en

?collectie <https://stad.gent/id/concept/530009136>

?v "Toestellen die door brandstof of elektriciteit worden aangedreven en die in het huishouden worden gebruikt voor het vergemakkelijken van taken zoals het bereiden van een maaltijd, het opslaan van voeding, schoonmaken en verzorging."@nl

?typeCollectie <http://vocab.getty.edu/page/aat/300257284>

?t <http://vocab.getty.edu/aat/300257284>

?collectie <https://stad.gent/id/concept/530009136>

?v "Toestellen die door brandstof of elektriciteit worden aangedreven en die in het huishouden worden gebruikt voor het vergemakkelijken van taken zoals het bereiden van een maaltijd, het opslaan van voeding, schoonmaken en verzorging."@nl

?typeCollectie <http://vocab.getty.edu/page/aat/300257284>

?t <http://vocab.getty.edu/aat/300257284>

# Demo: query “vase”

# Concept you are interested in

BIND (<<http://vocab.getty.edu/aat/300132254>> as ?subtype)

```
# Objects from Ghent
{
  ?object cidoc:P102_has_title ?title ;
    cidoc:P41i_was_classified_by [
      cidoc:P42_assigned ?subtype ;
    ] ;
    cidoc:P129i_is_subject_of ?dams .
}

UNION

# Objects from Antwerp
{
  ?object cidoc:P102_has_title ?title ;
    cidoc:P2_has_type [ owl:sameAs ?subtype ] .
  BIND (str(replace(str(?object),"https://data.antwerp.be/id/mensgemaaktobject/", "")) as ?id) .
  BIND (URI(concat("https://dams.antwerpen.be/zoeken?search=",?id)) AS ?dams) .
}
```

Entiteit.classificatie  
(OSLO Cultureel  
erfgoed Event)

Link to IIIF manifest  
published via DAMS

Entiteit.type (OSLO  
Cultureel erfgoed  
Object)

Link to DAMS via  
search API

# Result: 241 vases in 585.7s

**Stop execution**

241 results in 585.7s

## Query results:

?object <https://data.antwerp.be/id/mensgemaaktobject/AV.1938.014.066>

?subtype <http://vocab.getty.edu/aat/300132254>

?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.068>

?title "Vaas versierd met bloemenranken"@nl-nl

?object <https://data.antwerp.be/id/mensgemaaktobject/MPM.V.II.10.7.051.1-3>

?subtype <http://vocab.getty.edu/aat/300132254>

?dams <https://dams.antwerpen.be/zoeken?search=MPM.V.II.10.7.051.1-3>

?title "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel

printemps couve sous l'hiver"@nl-nl

?object <https://data.antwerp.be/id/mensgemaaktobject/AV.1938.014.073>

?subtype <http://vocab.getty.edu/aat/300132254>

?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.073>

?title "Kelkvormige vaas met veelkleurig bloemenmotief en namaakboeket (voor  
schouwgarnituur)"@nl-nl

?object <https://data.antwerp.be/id/mensgemaaktobject/VM.2008.316.327.2-2>

## Execution log:

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2Fw>

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2Fw>

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2Fw>

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2Fw>

Link naar object kopiëren



### Vaasje met bloemen

Aardewerken kalebassvormig vaasje met blauwe grond waarop in loogrelief een plant met gele bloemen.

Design Museum Gent vaas onbekend Kortrijk

glazuren Kortrijksche Kunstpotterij

draaien (potenbakkerstechniek) bakken

engoberen verglazien Laigneel, Pieter-Jozef

aardewerk engobe (klei) glazuur

Meer info over dit werk

Praat mee:

Verschil hier iets over



?dams <https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211>

?q <https://stad.gent/id/agent/530021566>

?title "Vaasje met bloemen"@nl

?subtype <http://vocab.getty.edu/aat/300132254>

?object <https://stad.gent/id/mensgemaaktobject/dmg/530007905/2022-02-25T17:12:03.599Z>

```
content: "https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211"
  -@id: "https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211"
  -@type: "sc:Manifest"
  -label:
    -@value: "Vaasje met bloemen"
    -@language: "nl"
  -description: "Aardewerken kalebassvormig vaasje met blauwe grond waarop in laagrelief een plant met gele bloemen"
  -rendering:
    -@id: "https://stad.gent/id/mensgemaaktobject/dmg/530007905/2022-02-25T17:12:03.599Z"
  -sequences:
    -@id:
      -@type: "sc:Sequence"
      -canvases:
        -@id:
          -@id: "https://api.collectie.gent/iiif/presentation/v2/canvas/89187ed7d1686583a9639491199556a5-transcode-1987-1211$1.jpg.json"
          -@type: "sc:Canvas"
          -label: "89187ed7d1686583a9639491199556a5-transcode-1987-1211$1.jpg"
          -height: 2384
          -width: 3456
        -images:
          -@id:
            -@type: "oa:Annotation"
            -attribution: "photographer: Foto Design Museum Gent, source: Design Museum Gent"
            -license: "https://creativecommons.org/publicdomain/zero/1.0/"
            -motivation: "sc:painting"
            -resource:
              -@id: "https://api.collectie.gent/full/full/0/default.jpg"
              -@type: "dctypes:Image"
              -format: "image/jpeg"
              -height: 2384
              -width: 3456
              -service: {...}

```

**?dams** <https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211>

**?q** <https://stad.gent/id/agent/530021566>

**?title** "Vaasje met bloemen"@nl

**?subtype** <http://vocab.getty.edu/aat/300132254>

**?object** <https://stad.gent/id/mensgemaaktobject/dmg/530007905/2022-02-25T17:12:03.599Z>

# Vaasje versierd met bloemen en ranken en opschrift “La Soldanelle des Alpes” en “l'éternel printemps couve sous l'hiver”



Objectnummer AV.1938.014.073

Afdeling Collectie Vleeshuis

Titel Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'

Vervaardiger Gallé

Vervaardiging plaats Nancy [plaats]

Datum 1875 - 1884

Objectnaam

Materiaal ?title "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'"@nl-nl

Formaat ?object <https://data.antwerp.be/id/mensgemaaktobject/AV.1938.014.073>

Verwervingsdatum ?subtype <http://vocab.getty.edu/aat/300132254>

Verwervingsmethode ?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.073>



**Vaasje versierd met bloemen en ranken en opschrift “La Soldanelle des Alpes” en “l’éternel printemps couve sous l’hiver”**

?title "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'"@nl-nl

?object <https://data.antwerp.be/id/mensgemaaktobject/AV.1938.014.073>

?subtype http://vocab.getty.edu/aat/300132254

?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.073>

# Touchpoints

- Use of Flemish URI standards
- Use of OSLO models
- 5-stars Linked Open Data (AAT, Wikidata...)
- Connected and linked heritage municipal data
- Use of the same patrons within modelling (Gitbook)
- Data cleaning and control based on CEST invulboek voor registratiesystemen  
→ re-usable mapping

## Results

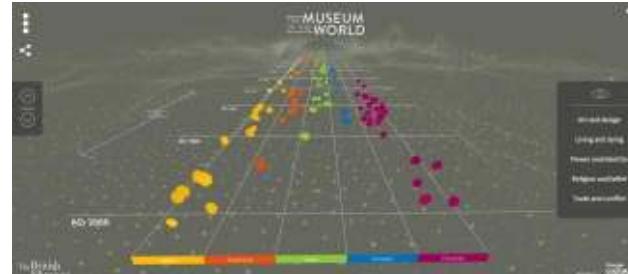
- GLAM: breaking the borders between silo's
- Connections between the heritage collections of different cities

# Lessons Learned

- Cleaning of metadata should run parallel with setting up your architecture
- Enriching metadata through LOD (authorities) (cfr termenennetwerk NL) should also be a focus point
- Think (hard) before you start, especially on the different parts of the architectural setup
- Engage and convince your (board of) directors by focussing on long term advantages
- Communicate 'upstairs' and 'downstairs', with appropriate messages
- Corona set everybody on the same path: heritage collections worldwide are all working towards LOD: so invest in networking and exchanging knowledge

# And now onwards...

- Antwerp and CoGhent (and meemoo) compare and adjust existent OSLO mappings (gitbook/github/doxify)
- Development and broadening of OSLO mapping (eg intangible, art history, industrial, sciences, ... ): Vlaamse Overheid
- Apps and websites as a POC



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STAM

